Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(Currently Amended) A speech processing method comprising:

scaling a decision tree-based <u>acoustical</u> model [[for]] <u>which is based on a vocabulary</u>, wherein the scaling merges at least one node of the decision tree-based <u>acoustical</u> model with a parent node of the at least one node, the merging based on a <u>subset of the vocabulary</u> which is used in a given task;

receiving speech information of the given task; and

processing the received speech information based on the scaled decision tree-based acoustical model.

- (Currently Amended) The method of claim 1, wherein the decision tree-based acoustical model is a decision tree-based hidden markov model (HMM).
- (Currently Amended) The method of claim 1, further comprising:
 adapting the scaled decision tree-based <u>acoustical</u> model for the given task.
- 4. (Currently Amended) A speech processing system comprising:

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a memory to store a decision tree-based <u>acoustical</u> model for a given task <u>which is</u> based on a vocabulary; [[and []

a processor to scale the decision tree-based <u>acoustical</u> model, <u>wherein the scaling</u> merges at least one node of the decision tree-based acoustical model with a parent node of the at least one node, the merging based on a subset of the vocabulary which is used in a for the given task;

an input device to receive speech information of the given task; and

a signal processor to process the received speech information based on the scaled decision tree-based acoustical model.

- (Currently Amended) The system of claim 4, wherein the decision tree-based acoustical model is a decision tree-based hidden markov model (HMM).
- (Currently Amended) The system of claim 4, wherein the processor is to adapt the scaled decision tree-based <u>acoustical</u> model for the given task.
- (Currently Amended) A machinecomputer-readable medium that provides having
 instructions stored thereon, which if executed by a processor, cause the processor to
 perform the operations comprising:

scaling a decision tree-based <u>acoustical</u> model [[for]] <u>which is based on a vocabulary</u>, <u>wherein the scaling merges at least one node of the decision tree-based acoustical model with a parent node of the at least one node, the merging based on a subset of the vocabulary which is used in a given task;</u>

receiving speech information of the given task; and

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processing the received speech information based on the scaled decision tree-based acoustical model.

8. (Currently Amended) The <u>machinecomputer</u>-readable medium of claim 7, further providing instructions, which if executed by a processor, cause the processor to perform the operations of:

scaling the decision tree-based <u>acoustical</u> model based on a hidden markov model (HMM) for the given task.

 (Currently Amended) The machinecomputer-readable medium of claim 7, further providing instructions, which if executed by a processor, cause the processor to perform the operations of:

adapting the scaled decision tree-based acoustical model for the given task.

10. (Currently Amended) A speech processing method comprising:

collecting a vocabulary knowledge [[of]] used in a given task; and

trimming down a general acoustical model according to the vocabulary knowledge [[of]] $\underline{used\ in}$ the given $task_{\frac{1}{4}}$

receiving speech information of the given task; and

processing the received speech information based on the scaled decision treebased acoustical model. Amendment dated August 31, 2007 Response to Office Action of May 31, 2007

11. (Currently Amended) The method of claim 10, further comprising:

adapting the trim-down general acoustical model for the given task.

12 (Currently Amended) The method of claim 11, wherein the adapting the trim-

down general acoustical model includes:

collecting adaptation data, the adaptation data being related to the given task; and

adapting the trim-down general acoustical model to a task dependent acoustical

model using the adaptation data.

13. (Currently Amended) The method of claim 12, further comprising:

interpolating the trim-down general acoustical model with the task dependent acoustical model to obtain a task specific acoustical model.

14. (Currently Amended) The method of claim 10, wherein the general acoustical

model is a hidden markov model (HMM).

(Currently Amended) A speech processing system comprising: 15.

a memory to store a general acoustical model; II and II

a processor to collect a vocabulary knowledge [] of [] used in a given task and to

trim down the general acoustical model according to the vocabulary knowledge [[of]]

used in the given task;

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an input device to receive speech information of the given task; and

a signal processor to process the received speech information based on the trim-

down general acoustical model.

16. (Currently Amended) The system of claim 15, wherein the processor is <u>further</u> to

adapt the trim-down general acoustical model for the given task.

17. (Currently Amended) The system of claim 16, wherein the processor is further to

collect adaptation data, the adaptation data being related to the given task and adapt the trim-down general acoustical model to a task dependent acoustical model using the

adaptation data.

18. (Currently Amended) The system of claim 17, wherein the processor is to

interpolate the trim-down general acoustical model with the task dependent acoustical

model to obtain a task specific acoustical model.

19. (Currently Amended) The system of claim 15, wherein the general acoustical

model is a hidden markov model (HMM).

(Currently Amended) A machine computer-readable medium that provides having

instructions stored thereon, which if executed by a processor, cause the processor to

perform the operations comprising:

collecting a vocabulary knowledge [[of]] used in a given task; and

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trimming down a general <u>acoustical</u> model according to the vocabulary knowledge [f of]] used in the given task:

receiving speech information of the given task; and

processing the received speech information based on the trim-down general acoustical model.

21. (Currently Amended) The machine computer-readable medium of claim 20, further providing instructions, which if executed by a processor, cause the processor to perform the operations of:

adapting the trim-down general acoustical model for the given task.

22. (Currently Amended) The <u>machine computer</u>-readable medium of claim 21, further providing instructions, which if executed by a processor, cause the processor to perform the operations of:

collecting adaptation data, the adaptation data being related to the given task; and adapting the trim-down general <u>acoustical</u> model to a task dependent <u>acoustical</u> model using the adaptation data.

23. (Currently Amended) The machinecomputer-readable medium of claim [[7]] 22, further providing instructions, which if executed by a processor, cause the processor to perform the operations of:

interpolating the trim-down general <u>acoustical</u> model with the task dependent <u>acoustical</u> model to obtain a task specific <u>acoustical</u> model.